

Connecticut Department of **Energy & Environmental Protection**

Bureau of Materials Management & Compliance Assurance Water Permitting & Enforcement Division

MS4 Annual Report Transmittal Form

For the General Permit to Discharge Stormwater from Small Municipal Separate Storm Sewer Systems (MS4)

Print or type unless otherwise noted. Please submit this completed transmittal form, fee, and the MS4 Annual Report as indicated at the end of this form.

	CPPU USE ONLY
App #	f:
Doc#	
Checl	K#:

	Program: Stormwater Permits

Part I: Annual Report General Information

1.	Reporting Period (Calendar Year): 2019 Provide the registration number for the existing ge	neral permit registration: GSM 000001
3.	Registrant Type (check one):	Fees
	state institution/agency	\$375.00 [713]
	federal institution/agency	\$375.00 [713]
	⊠ municipality	\$187.50 [713]
4.	Municipality name or Municipality name where ins	titution is located: Town of West Hartford

The annual report will not be processed without the fee. The fee shall be non-refundable and shall be paid by check or money order to the Department of Energy and Environmental Protection (DEEP) or by such other method as the commissioner may allow.

Part II: Registrant Information

1. Registrant (Name of Municipality or State or Federal Institution/Agency): Town of West Hartford

Mailing Address: Town of West Hartford, Department of Community Development, 50 S Main Street

State: CT

City/Town: West Hartford Zip Code: 06107 Business Phone: (860) 561-7540 ext.:

Contact Person: Duane Martin Phone: (860) 561-7539 ext.

*E-mail: DuaneM@WestHartfordCT.gov

*By providing this e-mail address you are agreeing to receive official correspondence from DEEP, at this electronic address, concerning the subject registration. Please remember to check your security settings to be sure you can receive e-mails from "ct.gov" addresses. Also, please notify DEEP if your e-mail address changes.

Part II: Registrant Information (continued)

2.	Billing contact, if different than the registrant.		
	Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.:	
	Contact Person:	Phone:	ext.
	E-mail:		
3.	Primary contact for departmental correspondence and i	nquiries, if diffe	erent than the registrant.
	Name:		
	Mailing Address:		
	City/Town:	State:	Zip Code:
	Business Phone:	ext.:	
	Contact Person:	Phone:	ext.
	*E-mail:		
	*By providing this e-mail address you are agreeing to receive offici address, concerning the subject registration. Please remember to receive e-mails from "ct.gov" addresses. Also, please notify DEEP	check your securit	ty settings to be sure you can
4.	Engineer(s) or other consultant(s) employed or retained	I to assist in pro	eparing the annual report.
	Check here if additional sheets are necessary, and lab	el and attach the	em to this sheet.
	Name: CDM Smith Inc.		
	Mailing Address: 260 West Exchange Street, Suite 300		
	City/Town: Providence	State: RI	Zip Code: 02903
	Business Phone: (401) 457-0334	ext.:	
	Contact Person: Cynthia Baumann	Phone: (401)	457-0334 ext.
	E-mail: baumannca@cdmsmith.com		
	Service Provided: Assisted in preparation of Annual Rep	ort	
5.	Check here if there are adjacent towns or other entities Management Plan is coordinated for a portion of the su towns or entities:	bject MS4. If so,	provide the names of such

Part III: Registrant Certification

The registrant and the individual(s) responsible for actually preparing the annual report must sign this part. [If the registrant is the preparer, please mark N/A in the spaces provided for the preparer.]

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that based on reasonable investigation, including my inquiry of the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief.

I certify that this annual report transmittal is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I certify that the following public notice requirements have been met.

Annual Report Availability: At least forty-five (45) days prior to submission of each Annual Report to DEEP, pursuant to Section 4(d)(3) of the MS4 General Permit, each permittee shall make available for public review and comment a draft copy of the complete Annual Report. Comments on the Annual Report may be made to the permittee and are *not* submitted to DEEP. Reasonable efforts to inform the public of this document shall be undertaken by the permittee. Such draft copies shall be made available electronically on the permittee's website for public inspection and copying, consistent with the federal and state Freedom of Information Acts, and shall be made available, at a minimum, at one of the following locations: the permittee's main office or other designated municipal or institution office, a local library or other central publicly available location. Following submission of the Annual Report to DEEP, a copy of the final report shall be made available for public inspection during regular business hours.

I understand that a false statement in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute.

I also certify that the signature of the registrant, or a duly authorized representative, being submitted herewith complies with section 22a-430-3(b)(2)(B) of the Regulations of Connecticut State Agencies.

	mw/ht	04/02/2020
	Signature of Chief Elected official or Principal Executive	Date
	Officer	
	Matthew W. Hart	Town Manager
	Printed Name of Chief Elected official or Principal Executive Officer	Title (if applicable)
	Cjothi a fun	
		3/31/2020
-	Signature of Preparer (if different than above)	Date
	Cynthia Baumann, P.E.	Principal
	Printed Name of Preparer	Title (if applicable)

Note:

Please submit

1) this completed Transmittal Form and the Fee to:

CENTRAL PERMIT PROCESSING UNIT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION 79 ELM STREET HARTFORD, CT 06106-5127

2) a copy of this completed Transmittal Form and the Annual Report electronically to the following email address: DEEP.StormwaterStaff@ct.gov.

Refer to www.ct.gov/deep/municipalstormwater for information on Annual Report Templates or other additional information concerning the MS4 General Permit.

In the event that electronic submission is not available or possible, please contact the Stormwater Section at 860-424-3025.

MS4 General Permit Town of West Hartford 2019 Annual Report Existing MS4 Permittee Permit Number GSM 000001 [January 1, 2019 – December 31, 2019]

This report documents West Hartford's efforts to comply with the conditions of the MS4 General Permit to the maximum extent practicable (MEP) from January 1, 2019 to December 31, 2019.

Part I: Summary of Minimum Control Measure Activities

1. Public Education and Outreach (Section 6 (a)(1) / page 19)

1.1 BMP Summary

1-2 Address education/ outreach for pollutants of concern*	1-1 Implement public education and outreach	ВМР
Complete/ Ongoing	Ongoing	Status
Created stormwater educational materials to target pollutants of concern.	Provided stormwater educational materials on the Town website and at Town events. MDC Household Hazardous Waste Collections were held in West Hartford on June 23, 2019 and Sept 21, 2019 Advertised yard waste collection and collection on Town website and by email	Activities in current reporting period (if needed, more space available after this table)
Identify pollutants of concern and incorporate applicable materials	Provide stormwater information to residents and the general public	Measurable goal
Renee McCue, Public Relations Specialist	Renee McCue, Public Relations Specialist	Department / Person Responsible
Ongoing	Ongoing	Due
2019 tasks complete	2019 tasks complete	Date completed or projected completion date
	Town parks have signs to educate on picking up pet waste Stormwater brochures were distributed at the Public Works Open House in May and Celebrate West Hartford in June	Additional details

1.2 Describe any Public Education and Outreach activities planned for the next year, if applicable.

Update documents on Town Stormwater website, as needed.

Participate in MDC Household Hazardous Collection.

Continue with pet waste education on Public Works website and in Town Parks with signs.

Distribute stormwater brochure at Town offices, meetings, and events.

website and with emails. Perform Yard Waste Collection twice per year, collect 30-gallon brown leaf bags in fall in spring. Drop-off available for yard waste. Advertise to pubic on

1.3 Details of activities implemented to educate the community on stormwater

Program Element/Activity	Audience (and number of people reached)	Topic(s) covered	Pollutant of Concern addressed (if applicable)	Responsible dept. or partner org.
Distributed tri-fold stormwater brochure	Residents	General	Bacteria	Renee McCue, Public Relations
		stormwater,		Specialist
		pollutants, what		
		you can do to help		
Stormwater Website developed	Residents and	Multiple topics	Bacteria, Nitrogen,	Town Engineering
	general public		Phosphorus	
Lawn care: Yard Waste Collection in the spring and fall	Residents	Lawn care		Town DPW
Participated in MDC Household Hazardous	Town-wide	Hazardous waste		Hartford Metropolitan District
Collection		management		Commission

2. Public Involvement/Participation (Section 6(a)(2) / page 21)

2.1 BMP Summary

вмР	Status	Activities in current	Measurable	Department / Person	Due	Date completed or projected	Additional details
		reporting period	goal	Responsible		completion date	
2-1 Final Stormwater	Complete	Stormwater	Make the	Duane Martin,	Ongoing	Apr 3, 2017	No updates to the
Management Plan publicly		Management Plan	Stormwater	Town Engineer			Stormwater Management
available		available to the public	Management				Plan have been made
		on Town's website	Plan available		***************************************		
	***************************************		to the public				
2-2 Comply with public notice	Ongoing	Latest annual report	Make the latest	Duane Martin,	Feb 15,	Feb 15, 2019	No public comments were
requirements for Annual	***************************************	will be available to the	annual report	Town Engineer	2019		received in 2019
Reports		public on Town's	available to the		***************************************		
		website	public				

2.2 Describe any Public Involvement/Participation activities planned for the next year, if applicable.

Post Annual Report for public comment on Feb 15, 2020.

Participate in MDC Household Hazardous Waste Collection program, hosted in West Hartford annually.

website and emails. Perform Yard Waste Collection, twice per year, collect 30-gallon brown leaf bags in fall in spring. Drop-off available for yard waste. Advertise to pubic on

2.3 Public Involvement/Participation reporting metrics

	Availability of Annual Report announced to public	Availability of the Stormwater Management Plan to public	Metrics
***************************************	Yes	Yes	Implemented
Constant to the constant to th	Feb 15, 2020	Apr 3, 2017	Date
	https://www.westhartfordct.gov/gov/departments/engineering/stormwater.asp	https://www.westhartfordct.gov/gov/departments/engineering/stormwater.asp	Posted

3. Illicit Discharge Detection and Elimination (Section 6(a)(3) and Appendix B / page 22)

3.1 BMP Summary

BMP 3-1 Develop written IDDE	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible Duane Martin, Town Engineer	Due Jul 1, 2018	Date completed or projected completion date July 31, 2018	
3-1 Develop written IDDE program 3-2 Develop list and maps of all	Complete			Duane Martin, Town Engineer Duane Martin,	Jul 1, 2018 Jul 1,	July 31, 201 Nov 2018	∞
3-2 Develop list and maps of all MS4 stormwater outfalls in priority areas	Complete			Duane Martin, Town Engineer	Jul 1, 2019	Nov 2018	
3-3 Implement citizen reporting program	Ongoing	Implemented citizen reporting program	Implement citizen reporting program	John Phillips, Public Works Director	Ongoing	Implementation is ongoing	tation is
3-4 Establish legal authority to prohibit illicit discharges	Complete			Corporation Counsel	Jul 1, 2018	Effective June 30, 2018	lune 30,
3-5 Develop record keeping system for IDDE tracking	Complete			Duane Martin, Town Engineer	Jul 1, 2017		
3-6 Address IDDE in areas with pollutants of concern	Complete			Duane Martin, Town Engineer	Not specified	July 1, 2018	18

3.2 Describe any IDDE activities planned for the next year, if applicable.

consultant stormwater outfall inspectors, and/or Town staff have noted a visual or olfactory concern. The Town will continue to do investigations based on prioritization methodology in the IDDE Plan. The first priority will be outfalls where the public,

Maintain master IDDE tracking spreadsheet.

3.3 List of citizen reports of suspected illicit discharges received during this reporting period.

Date of Report	Location / suspected source	Response taken
June 4, 2019	Town Staff was made aware of sediment flow into Trout Brook just upstream of New Park Avenue.	Engineering and Planning Division staff investigated the area and found 3 locations contributing to the sediment flow. Sediment was exiting the properties at 637 and 647 New Park Avenue. Both of these properties were under construction and lacking adequate erosion and sedimentation controls. The property owners were notified of the sediment flow and corrective measures were in place by June 6, 2019. Sediment was also flowing due to a utility project on Woodlawn Street. During the construction, a water service broke causing sediment from the construction trench to flow into the drainage system. The water service was shut off, repairs made, which addressed the problem on June 6, 2019.
July 1, 2019	Grease was observed in the drainage system near 37 and 43 LaSalle Road.	The property owner was notified to cease and desist from depositing grease into the drainage system by the West Hartford-Bloomfield Health District (WHBHD). WHBHD required the property owner to clean the drainage system. The cleaning was completed on July 5, 2019.

3.4 Provide a record of illicit discharges occurring during the reporting period and SSOs occurring July 2012 through end of reporting period using the following table.

Location	Date and duration of occurrence	Discharge to MS4 or surface water	Estimated volume discharged (Gallons)	Known or suspected cause / Responsible party	Corrective measures planned and completed	Sampling data (if applicable)
107 Hillcrest Avenue	2/27/2013	Surface Water	3,000,000	Metropolitan District Commission (MDC)	Install Sewer Conveyance and Storage Tunnel to eliminate this SSO (Tunnel)	
Opposite 212 Trout Brook Drive	2/27/2013	Surface Water	161,000	MDC	Tunnel	
Southerly end of Chelton Avenue	2/27/2013	Surface Water	2,045,000	MDC	Tunnel	
107 Hillcrest Avenue	3/12/2013	Surface Water	1,755,000	MDC	Tunnel	
Opposite 212 Trout Brook Drive	3/12/2013	Surface Water	69,000	MDC	Tunnel	
Southerly end of Chelton Avenue	3/12/2013	Surface Water	1,000,000	MDC	Tunnel	
107 Hillcrest Avenue	6/7/2013	Surface Water	2,173,000	MDC	Tunnel	
Opposite 212 Trout Brook Drive	6/7/2013	Surface Water	692,000	MDC	Tunnel	
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Tunnel	MDC	2,426,000	Surface Water	2/24/2016	107 Hillcrest Avenue
Tunnel	MDC	72,000	Surface Water	2/16/2016	107 Hillcrest Avenue
Tunnel	MDC	194,000	Surface Water	1/10/2016	107 Hillcrest Avenue
Tunnel	MDC	175,000	Surface Water	4/20/2015	Opposite 212 Trout Brook Drive
Tunnel	MDC	2,569,000	Surface Water	4/20/2014-4/21/2014	Southerly end of Chelton Avenue
Tunnel	MDC	2,055,000	Surface Water	4/20/2015-422/2015	107 Hillcrest Avenue
Tunnel	MDC	439,000	Surface Water	3/26/2014-3/28/2014	107 Hillcrest Avenue
Tunnel	MDC	653,000	Surface Water	3/14/2014-3/17/2014	107 Hillcrest Avenue
Tunnel	MDC	61,000	Surface Water	3/11/2015	107 Hillcrest Avenue
Tunnel	MDC	193,000	Surface Water	1/18/2015	107 Hillcrest Avenue
Tunnel	MDC	128,000	Surface Water	12/9/2014	Opposite 212 Trout Brook Drive
Tunnel	MDC	1,674,000	Surface Water	12/9/2014	Southerly end of Chelton Avenue
Tunnel	MDC	1,545,000	Surface Water	12/9/2014- 12/11/2014	107 Hillcrest Avenue
Tunnel	MDC	797,000	Surface Water	5/17/2014	Opposite 212 Trout Brook Drive
Tunnel	MDC	4,283,000	Surface Water	4/30/2014-5/2/2014	Southerly end of Chelton Avenue
Tunnel	MDC	68,000	Surface Water	5/1/2014	107 Hillcrest Avenue
Tunnel	MDC	3,473,000	Surface Water	4/30/2014-5/3/2014	107 Hillcrest Avenue
Tunnel	MDC	489,000	Surface Water	4/30/2014	Opposite 212 Trout Brook Drive
Tunnel	MDC	4,233,000	Surface Water	3/29/2014-4/2/2014	Southerly end of Chelton Avenue
Tunnel	MDC	5,329,000	Surface Water	3/29/2014- 4/2/2014	107 Hillcrest Avenue
Tunnel	MDC	108,000	Surface Water	3/20/2014	107 Hillcrest Avenue
Tunnel	MDC	854,000	Surface Water	2/6/2014	107 Hillcrest Avenue
Tunnel	MDC	638,000	Surface Water	1/9/2014	Southerly end of Chelton Avenue
Tunnel	MDC	6,110	Surface Water	12/30/2013	Opposite 212 Trout Brook Drive
Tunnel	MDC	183,000	Surface Water	11/27/2013	Southerly end of Chelton Avenue
Tunnel	MDC	190,000	Surface Water	11/27/2013	107 Hillcrest Avenue
Tunnel	MDC	24,000	Surface Water	6/18/2013	107 Hillcrest Avenue
Tunnel	MDC	10,437,000	Surface Water	6/11/2013	Southerly end of Chelton Avenue
Tunnel	MDC	1,602,000	Surface Water	6/11/2013	Opposite 212 Trout Brook Drive
Tunnel	MDC	7,776,000	Surface Water	6/11/2013	107 Hillcrest Avenue
Tunnel	MDC	3,911,000	Surface Water	6/7/2013	Southerly end of Chelton Avenue

	Tunnel	MDC	29,000	Surface Water	4/26/2018	Talcott Rd and Chelton Ave
	Tunnel	MDC	1,074,00	Surface Water	4/25/2018	West of Hillcrest Ave
	Tunnel	MDC	1,645,000	Surface Water	4/16/2018	Near 204 Trout Brook Dr
	Tunnel	MDC	4,641,00	Surface Water	4/16/2018	Talcott Rd and Chelton Ave
	Tunnel	MDC	15,676,000	Surface Water	4/16/2018	West of Hillcrest Ave
	Tunnel	MDC	207,000	Surface Water	3/2/2018	Talcott Rd and Chelton Ave
	Tunnel	MDC	7,136,000	Surface Water	3/2/2018	West of Hillcrest Ave
	Tunnel	MDC	5,564,000	Surface Water	2/25/2018	West of Hillcrest Ave
	Tunnel	MDC	14,000	Surface Water	2/11/2018	Talcott Rd and Chelton Ave
	Tunnel	MDC	4,991,000	Surface Water	2/11/2018	West of Hillcrest Ave
	Tunnel	MDC	334,000	Surface Water	1/12/2018	Talcott Rd and Chelton Ave
	Tunnel	MDC	1,062,000	Surface Water	1/12/2018	West of Hillcrest Ave
	Caused by water main break that was repaired	MDC	0	Surface Water	1/6/2018	101 Woodlawn St
	Tunnel	MDC	100,000 - 500,000	Surface Water	10/29/2017	Trout Brook Dr N/O Quaker La
	Tunnel	MDC	1,000,000+	Surface Water	10/29/2017	Talcott Rd and Chelton Ave
	Tunnel	MDC	1,000,000+	Surface Water	10/29/2017	SSO (NTS - Hillcrest Ave)
	MDC CMOM - Jetted mainline sewer 10/29/17	MDC	100 - 1,000	Basement Backup	10/29/2017	67/69 Levesque Ave
	Tunnel	MDC	100,000 - 500,000	Surface Water	10/25/2017	West of Hillcrest Ave
	Tunnel	MDC	500,000 - 1,000,000	Surface Water	10/25/2017	Talcott Rd and Chelton Ave
	Tunnel	MDC	53,000	Surface Water	5/5/2017	107 Hillcrest Avenue
,	Tunnel	MDC	707,000	Surface Water	4/6/2017	Southerly end of Chelton Avenue
	Tunnel	MDC	344,000	Surface Water	4/4/2017	Southerly end of Chelton Avenue
	Tunnel	MDC	3,003,000	Surface Water	4/4/2014	107 Hillcrest Avenue
	Tunnel	MDC	1,000	Surface Water	4/1/2017	Southerly end of Chelton Avenue
	Tunnel	MDC	1,797,000	Surface Water	3/31/2017	107 Hillcrest Avenue
	Tunnel	MDC	110,000	Surface Water	2/25/2016	Opposite 212 Trout Brook Drive
	Tunnel	MDC	2,319,000	Surface Water	2/24/2016	Southerly end of Chelton Avenue

CMOM Program - Jetted mainline sewer 11/26/18	MDC	<100	Basement Backup	11/26/2018	24 Lockwood Terrace
CMOM Program - Jetted mainline sewer 11/20/18	MDC	<100	Basement Backup	11/20/2018	32, 38 Lockwood Terrace
Tunnel	MDC	10,000	Surface Water	11/13/2018	Near 204 Trout Brook Dr
Tunnel	MDC	1,245,000	Surface Water	11/13/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	9,607,000	Surface Water	11/13/2018	West of Hillcrest Ave
Tunnel	MDC	15,896,000	Surface Water	11/9/2018	West of Hillcrest Ave
Tunnel	MDC	4,075,000	Surface Water	11/6/2018	West of Hillcrest Ave
CMOM Program	MDC	<1,000	Basement Backup	11/3/2018	186 Main St
Tunnel	MDC	471,000	Surface Water	11/3/2018	Near 204 Trout Brook Dr
Tunnel	MDC	9,171,000	Surface Water	11/3/2018	West of Hillcrest Ave
Tunnel	MDC	4,500,000	Surface Water	11/3/2018	Talcott Rd and Chelton Ave
CMOM Program	MDC	<1,000	Surface Water	10/11/2018	Linbrook Rd
CMOM Program - Repaired mainline sewer 10/2018	MDC	500,000 - 1,000,000	Basement Backup, Surface Water	10/3/2018	Basements of multiple homes (~21) in Linbrook Rd area
Tunnel	MDC	<1,000	Surface Water	10/2/2018	Near 204 Trout Brook Dr
Tunnel	MDC	128,000	Surface Water	10/2/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	8,286,000	Surface Water	10/2/2018	West of Hillcrest Ave
Tunnel	MDC	6,000	Surface Water	9/28/2018	West of Hillcrest Ave
Tunnel	MDC	574,000	Surface Water	9/26/2018	West of Hillcrest Ave
Tunnel	MDC	1,000	Surface Water	9/25/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	574,000	Surface Water	9/25/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	2,789,000	Surface Water	9/25/2018	West of Hillcrest Ave
CMOM Program - Jetted mainline sewer 9/15/18	MDC	<100	Basement Backup	9/15/2018	17, 22 Mozart St
Tunnel	MDC	11,000	Surface Water	9/12/2018	Near 204 Trout Brook Dr
Tunnel	MDC	<50,000	Surface Water	9/3/2018	West of Hillcrest Ave
Tunnel	MDC	<25,000	Surface Water	8/24/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	<1,000	Surface Water	8/14/2018	Near 204 Trout Brook Dr
Tunnel	MDC	1,101,000	Surface Water	8/4/2018	West of Hillcrest Ave
Tunnel	MDC	10,000	Surface Water	6/28/2018	West of Hillcrest Ave

Tunnel	MDC	4,860,000	Surface Water	4/13/19-4/16/19	Hillcrest Ave (NTS)
Tunnel	MDC	3,000	Surface Water	4/15/2019	Talcott Rd (CTS-3)
Tunnel	MDC	500,000	Surface Water	3/15/2019	Hillcrest Ave (NTS)
Tunnel	MDC	1,200,000	Surface Water	2/24/2019	Hillcrest Ave (NTS)
Tunnel	MDC	34,000,000	Surface Water	1/24/2019	NTS, CTS-2, CTS-3, Ringgold St, Fox Meadow Lane
Tunnel	MDC	21,000	Surface Water	11/24/2019	Hillcrest Ave (NTS)
Main sewer flushed by jet truck and stoppage relieved	MDC	<100	Surface Water	10/27/2019	59-61 Levesque Ave
Tunnel	MDC	7,000	Surface Water	10/27/2019	Talcott Rd (CTS-3)
,	MDC	î	Surface Water	1/15/2019	Fox Meadow Lane, West Hartford
Cleaned sewer	MDC	<100	Surface Water	1/5/2019	16 and 26 Hammick Rd, West Hartford
Tunnel	MDC	3,700,000	Surface Water	1/5/2019	Hillcrest Ave (NTS)
Tunnel	MDC	30,000	Surface Water	1/5/2019	Talcott Rd (CTS-3)
Tunnel	MDC	151,000	Surface Water	1/1/2019	Hillcrest Ave (NTS)
CMOM Program	MDC	<25,000	Surface Water	1/24/2019	Ringgold St
Tunnel	MDC	27,669,000	Surface Water	1/24/2019	West of Hillcrest Ave
CMOM Program	MDC	25,000 to 50,000	Surface Water	1/24/2019	Siphon inlet chamber
Tunnel	MDC	782,000	Surface Water	1/24/2019	Near 204 Trout Brook Dr
Tunnel	MDC	4,418,000	Surface Water	1/24/2019	Talcott Rd and Chelton Ave
CMOM Program - Jetted mainline sewer 1/5/19	MDC	<100	Basement Backup	1/5/2019	16, 26 Hammick Rd
Tunnel	MDC	3,788,000	Surface Water	1/5/2019	West of Hillcrest Ave
Tunnel	MDC	26,000	Surface Water	1/5/2019	Talcott Rd and Chelton Ave
Tunnel	MDC	151,000	Surface Water	1/1/2019	West of Hillcrest Ave
Tunnel	MDC	180,000	Surface Water	12/21/2018	Near 204 Trout Brook Dr
Tunnel	MDC	500,000 to 1,000,000	Surface Water	12/21/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	11,181,000	Surface Water	12/21/2018	West of Hillcrest Ave
Tunnel	MDC	2,630,000	Surface Water	12/2/2018	West of Hillcrest Ave
Tunnel	MDC	91,000	Surface Water	11/26/2018	Talcott Rd and Chelton Ave
Tunnel	MDC	8,521,000	Surface Water	11/26/2018	West of Hillcrest Ave

Hillcrest Ave (NTS)	4/20/19-4/23/19	Surface Water	3,000,000	MDC	Tunnel	
Trout Brook Dr (CTS-2)	4/26/19-4/27/19	Surface Water	100,000	MDC	Tunnel	
Talcott Rd (CTS-3)	4/26/19-4/27/19	Surface Water	4,600,000	MDC	Tunnel	
Hillcrest Ave (NTS)	4/26/19 - 4/30/19	Surface Water	17,000,000	MDC	Tunnel	
844-846 Quaker Lane, West Hartford	4/29/2019	Surface Water	200	MDC	Regular maintenance of sewer	
Hillcrest Ave (NTS)	5/6/2019	Surface Water	92,000	MDC	Tunnel	
Hillcrest Ave (NTS)	5/12/2019	Surface Water	5,000	MDC	Tunnel	
Hillcrest Ave (NTS)	5/13/2019	Surface Water	4,760	MDC	Tunnel	
Hillcrest Ave (NTS)	8/7/2019	Surface Water	1,100,000	MDC	Tunnel	
Talcott Rd (CTS-3)	8/7/2019	Surface Water	700,000	MDC	Tunnel	
Trout Brook Dr (CTS-2)	8/7/2019	Surface Water	200,000	MDC	Tunnel	
1018/1028 Trout Brook Dr, West Hartford	8/16/2019	Surface Water	<10	MDC	Cleaned grease	
Ringgold @ Gillette St, West Hartford	8/22/2019	Surface Water	<25,000	MDC	Removal of excess flow	
Trout Brook Dr (CTS-2)	12/9/2019	Surface Water	< 100	MDC	Tunnel	
Talcott Rd (CTS-3)	12/9/2019	Surface Water	1,400,000	MDC	Tunnel	
Hillcrest Ave (NTS)	12/9/19 - 12/11/19	Surface Water	10,400,000	MDC	Tunnel	
Trout Brook Dr (CTS-2)	12/14/2019	Surface Water	183,000	MDC	Tunnel	
Talcott Rd (CTS-3)	12/14/19 – 12/15/19	Surface Water	5,900,000	MDC	Tunnel	
Hillcrest Ave (NTS)	12/14/19 – 12/17/19	Surface Water	7,800,000	MDC	Tunnel	
Hillcrest Ave (NTS)	12/30/2019	Surface Water	6,200,000	MDC	Tunnel	

3.5 Briefly describe the method used to track illicit discharge reports, responses to those reports, and who was responsible for tracking this information.

Reports received through Mobile 311 or other pathways are sent to the Town Engineer for tracking.

3.6 Provide a summary of actions taken to address septic failures using the table below.

Location and nature of structure with failing septic systems	Actions taken to respond to and address the failures	Impacted waterbody or watershed, if known
64 High Ridge Road	Tank and leaching field replaced	
18 The Crossways	Tank and leaching field replaced	
14 Dodge Drive	Tank replacement	
11 Stonebridge Lane	Distribution Box and pipe replacement	
51 Mountain Farm Road	Distribution Box and pipe replacement	

3.7 IDDE reporting metrics

Metrics	
Estimated or actual number of MS4 outfalls	~450
Estimated or actual number of interconnections	22
Outfall mapping complete	100%
Interconnection mapping complete	98%
System-wide mapping complete (detailed MS4 infrastructure)	100%
Outfall assessment and priority ranking	100%
Dry weather screening of all High and Low priority outfalls complete	286
Catchment investigations complete	0 (3 started)
Estimated percentage of MS4 catchment area investigated	0%

3.8 Briefly describe the IDDE training for employees involved in carrying out IDDE tasks including what type of training is provided and how often is it given (minimum once per year).

An overview of IDDE was presented to Town staff in a powerpoint presentation with a focus on identifying and reporting illicit connections. The Town has hired a consultant to work with DPW staff on IDDE investigations, which provides Town staff with experience performing field investigations.

4. Construction Site Runoff Control (Section 6(a)(4) / page 25)

4.1 BMP Summary

ВМР	Status	Activities in current reporting period	Measurable goal	Department / Person Responsible	Due	Date completed or projected completion date	Additional details
4-1 Implement, upgrade, and enforce land use regulations or other legal authority to meet requirements of MS4 general permit	Ongoing	Updated legal authority		Corporation Counsel	Jul 1, 2019	Jul 1, 2020	Enforcing existing regulations
4-2 Develop/Implement plan for interdepartmental coordination in site plan review and approval	Ongoing	Implemented interdepartmental coordination plan	:mental	Todd Dumais, Town Planner	Ongoing	Ongoing	Development Complete
4-3 Review site plans for stormwater quality concerns	Ongoing	Performed site plan reviews for stormwater quality concerns	ws for stormwater	Todd Dumais, Town Planner	Ongoing	Ongoing	
4-4 Conduct site inspections	Ongoing	Performed site inspections	15	Todd Dumais, Town Planner	Ongoing	Ongoing	
4-5 Implement procedure to allow public comment on site development	Ongoing	Projects are listed on P&Z website	website	Todd Dumais, Town Planner	Ongoing	Ongoing	Procedure implemented, notification ongoing
4-6 Implement procedure to notify developers about DEEP construction stormwater permit	Ongoing	Implemented a procedure to notify developers of DEEP construction stormwater permit	e to notify ruction stormwater	Todd Dumais, Town Planner	Ongoing	Ongoing	Procedure implemented, notification ongoing

4.2 Describe any Construction Site Runoff Control activities planned for the next year, if applicable.

Continue to advance process of obtaining additional legal authority.

Continue implement interdepartmental coordination.

Continue site inspections: Town zoning enforcement officer on smaller projects; third party inspection on larger projects.

Update permit forms on website for developers

5. Post-construction Stormwater Management (Section 6(a)(5) / page 27)

5.1 BMP Summary

BMP 5-1 Establish and/or update legal authority and guidelines regarding LID and runoff reduction in site development planning 5-2 Enforce LID/runoff	Status Ongoing Ongoing	Activities in current reporting period Evaluated current regulations and develop regulations to establish legal authority Enforced current	Measurable goal New regulations	Department / Person Responsible Todd Dumais, Town Planner	Due Jul 1, 2021 Ongoing	Date completed or projected completion date Jul 1, 2021 Ongoing
5-2 Enforce LID/runoff reduction requirements for development and redevelopment projects	Ongoing	Enforced current regulations	Enforce current regulations	Todd Dumais, Town Planner	Ongoing beginning Jul 1, 2019	0
5-3 Identify retention and detention ponds in priority areas	Ongoing	Town compiled a list of retention and detention ponds with a description, and party responsible for maintenance	Develop long- term maintenance plan	Duane Martin, Town Engineer	่ Jul 1, 2019	Mar 1, 2020
5-4 Implement long-term maintenance plan for stormwater basins and treatment structures	Ongoing	Town began implementation of stormwater basin maintenance	Maintain and track stormwater basin maintenance	Duane Martin, Town Engineer John Phillips, Public Works Director	Ongoing beginning Jul 1, 2019	
5-5 DCIA mapping	Complete	Calculated baseline DCIA for each outfall	Summary table of DCIA information	Duane Martin, Town Engineer	Jul 1, 2020	
5-6 Address post-construction issues in areas with pollutants of concern	Ongoing	Identified projects in catchment areas that discharge to impaired waters	Summary table of catchments that discharge to impaired waters	Todd Dumais, Town Planner Duane Martin, Town Engineer	Not specified	

5.2 Describe any Post-Construction Stormwater Management activities planned for the next year, if applicable.

Continue to advance process of obtaining additional legal authority.

Continue to maintain Town-owned retention basins and detention basins.

5.3 Post-Construction Stormwater Management reporting metrics

Metrics	
Baseline (2012) Directly Connected Impervious Area (DCIA)	under evaluation
DCIA disconnected (redevelopment plus retrofits)	under evaluation
Retrofits completed	0
DCIA disconnected	under evaluation
Estimated cost of retrofits	\$0
Detention or retention ponds identified	23 this year /23 total (public & private)

5.4 Briefly describe the method to be used to determine baseline DCIA.

11% cut off. DCIA using what is recommended by CT NEMO option 2. See attached link. This will be supplemented by option #3 for catchments/basins that are near the The methodology for determining DCIA is to delineate the catchments to each outfall, evaluate the connectivity level of each catchment, and then calculate

https://nemo.uconn.edu/ms4/tasks/mapping.htm

6. Pollution Prevention/Good Housekeeping (Section 6(a)(6) / page 31)

6.1 BMP Summary

6-8 Develop/implement plan to Ongoing Identified projects to Track projects Todd	6-7 Implement infrastructure Ongoing repair/rehab program Evaluated infrastructure repair and rehabilitated MS4 infrastructure Evaluate MS4 infrastructure repair and develop a infrastructure Duan repair/rehab program	6-6 Track projects that Ongoing disconnect DCIA Tracked DCIA percentage Track DCIA percentage Town	6-5 Evaluate additional measures for discharges to impaired waters* Ongoing measures for discharges to implemented implemented procedures for reducing discharges to impaired waters Develop ed and implemented management procedures for management impaired waters Develop turf management program John Phi implemented management program	6-4 Develop/implement program to control other sources of pollutants to the MIS4 Ongoing implement on program Developed and implemented pollutant source control program implemented pollutant source control program implemented pollutant source control program implement source control program Develop and implement implement source control program implement source control program Develop and implement implement source control program	6-3 Implement coordination with interconnected MS4s Ongoing interconnected MS4s, including CT DOT Identify and interconnected MS4s, including CT DOT Identify and interconnected MS4s, including CT DOT Duan MS4s	of lance ation	6-1 Develop/implement formal employee training programOngoing OngoingPerformed employee trainingComplete annual staffJohn Phiemployee trainingtrainingPublic W	BMP Status Activities in current Measurable Person Respon
Todd Dumais, Jul 1,	Duane Martin, Jul 1, Town Engineer 2021	Todd Dumais, Town Planner Duane Martin, Town Engineer	John Phillips, Not Public Works specified Director	Duane Martin, Not Town Engineer specified	Duane Martin, Not Town Engineer specified	John Phillips, Ongoing Public Works beginning Director Jul 1, 2018	John Phillips, Ongoing Public Works Director	Department / Person Responsible
	Ongoing	ng Ongoing	Ongoing	Ongoing	Ongoing	ng Ongoing ning	ng Ongoing	Date completed or projected completion date
	Through the Capital Improvement Planning: annual budget allocates funds for stormwater projects				In progress – identifying correct contact people	SOPs developed on lawn care, sweeping, catch basin cleaning, herbicides	2019: Jan 16, 2020	Additional details

6-12 Develop/implement snow management practices	6-11 Develop/implement catch basin cleaning program	6-10 Develop/implement street sweeping program	6-9 Implement retrofit projects to disconnect 2% of DCIA
Ongoing	Ongoing	Ongoing	Not Started
Implemented snow management measures and practices	Developed and implemented catch basin cleaning and inspection procedures	Perform annual street sweeping	
Track snow management information	Perform prioritized annual catch basin cleaning	Perform annual street sweeping	
John Phillips, Public Works Director	John Phillips, Public Works Director	John Phillips, Public Works Director	Todd Dumais, Town Planner Duane Martin, Town Engineer
Ongoing beginning Jul 1, 2018	Ongoing beginning Jul 1, 2020	Ongoing beginning Jul 1, 2017	Jul 1, 2022
Ongoing	Ongoing	Ongoing	Jul 1, 2022
SOP for snow management previously developed			

6.2 Describe any Pollution Prevention/Good Housekeeping activities planned for the next year, if applicable.

Employee training with Town staff focused on engineering, planning, and health department

Coordinate with interconnected MS4s

Continue to implement turf management program

Track DCIA percentage

Repair and rehabilitated MS4 infrastructure

Continue annual street sweeping

Continue annual catch basin cleaning

Continue to implement snow management practices

6.3 Pollution Prevention/ Good Housekeeping reporting metrics

Metrics Imployee training provided for key staff	1/16/2020
	1 10/2020
Ourb miles swept	1 553 miles
of material collected	559 tons
Catch basin cleaning	
basins in priority areas	~1,770
Total catch basins in MS4	~6,500
Catch basins inspected 2	2,324
Catch basins cleaned	370
Volume (or mass) of material removed from all catch basins	92.5 tons
Volume removed from catch basins to impaired waters (if known)	unknown
Snow management	
Type(s) of deicing material used	Treated salt / salt
Total amount of each deicing material applied 3	3,662 tons / 600 tons
Type(s) of deicing equipment used	
Lane-miles treated 4	42,620 miles
Snow disposal location	
Staff training provided on application methods & equipment	Nov 2019
Municipal turf management program actions (for permittee properties in basins with N/P impairments)	
	unknown
Reduction in turf area (since start of permit)	unknown
Lands with high potential to contribute bacteria (dog parks, parks with open water, & sites with failing septic systems)	
	\$0

6.4 Catch basin cleaning program

Provide any updates or modifications to your catch basin cleaning program

basins to develop a baseline for future catch basin cleaning; catch basins that are found to be greater than 50% full are put on a list to be cleaned. The catch basin optimization plan is an informal plan that is being documented through the work order system. A part-time employee inspected catch

6.5 Retrofit program

Briefly describe the Retrofit Program identification and prioritization process, the projects selected for implementation, the rationale for the selection of those projects and the total DCIA to be disconnected upon completion of each project.

The Town is identifying existing and proposed public and private projects to meet the 2% DCIA reduction.

Describe plans for continuing the Retrofit program and how to achieve a goal of 1% DCIA disconnection in future years.

The Town is determining what % DCIA disconnection will be achieved through existing and proposed redevelopment projects.

The Town has not yet initiated a retrofit program for future years.

Describe plans for continuing the Retrofit program beyond this permit term with the goal to disconnect 1% DCIA annually over the next 5 years.

Part II: Impaired waters investigation and monitoring

1. Impaired waters investigation and monitoring program

1.1 Indicate which stormwater pollutant(s) of concern occur(s) in your municipality or institution. This data is available on the MS4 map viewer: http://s.uconn.edu/ctms4map.

itrogen/ Phosphorus 🗌	Bacteria 🛚	Mercury 🗌	Other Pollutant of Concern
.2 Describe program status.			

2. Screening data for outfalls to impaired waterbodies (Section 6(i)(1) / page 41)

Outfall screening and sampling during wet and dry weather has begun, a summary of the results is below.

Discuss 1) the status of monitoring work completed, 2) a summary of the results and any notable findings, and 3) any changes to the Stormwater Management Plan based on monitoring results.

2.1 Screening data

Complete the table below for any outfalls screened during the reporting period. Each Annual Report will add on to the previous year's screening data showing a cumulative list of outfall screening data.

Spring 2018

Outfall ID	Date	Parameter	E. Coli (cfu/100mL)	Lab Used	Follow-up required?
OF-5641-16	4/16/2018	Bacteria	1040	Phoenix	Yes
OF-5641-14	4/16/2018	Bacteria	3780	Phoenix	Yes
OF-5641-15	4/16/2018	Bacteria	10,500	Phoenix	Yes
OF-5641-16	4/16/2018	Bacteria	1440	Phoenix	Yes
OF-5641-17	4/16/2018	Bacteria	146	Phoenix	No
OF-5641-18	4/16/2018	Bacteria	2610	Phoenix	Yes
OF-5641-19	4/16/2018	Bacteria	1990	Phoenix	Yes
OF-5641-20	4/16/2018	Bacteria	813	Phoenix	Yes
OF-5641-21	4/16/2018	Bacteria	759	Phoenix	Yes
OF-5641-22	4/16/2018	Bacteria	1400	Phoenix	Yes
OF-5641-23	4/16/2018	Bacteria	9800	Phoenix	Yes
OF-5641-24	4/16/2018	Bacteria	368	Phoenix	No
OF-5641-25	4/16/2018	Bacteria	318	Phoenix	No
OF-5641-26	4/16/2018	Bacteria	110	Phoenix	No
OF-5641-27	4/16/2018	Bacteria	1270	Phoenix	Yes
OF-5641-28	4/16/2018	Bacteria	1300	Phoenix	Yes
OF-5641-29	4/16/2018	Bacteria	723	Phoenix	Yes
OF-5641-30	4/16/2018	Bacteria	402	Phoenix	No
OF-5641-31	4/16/2018	Bacteria	2280	Phoenix	Yes
OF-5641-32	4/16/2018	Bacteria	767	Phoenix	Yes
OF-5641-33	4/16/2018	Bacteria	565	Phoenix	Yes
OF-5641-34	4/16/2018	Bacteria	109	Phoenix	No

OF-5641-35 4/16/2018 Bacteria 2760 Phoenix Yes OF-5641-36 4/25/2018 Bacteria 63 Phoenix No OF-5641-37 4/25/2018 Bacteria 256 Phoenix No OF-5641-38 4/25/2018 Bacteria 7700 Phoenix Yes OF-5641-39 4/25/2018 Bacteria 1500 Phoenix Yes OF-5641-40 4/25/2018 Bacteria 2760 Phoenix Yes

Spring 2019

Date	Parameter	E. Coli cfu/100mL	Lab Used	Follow-up required?
4/8/2019	Bacteria	4,350	Phoenix	Yes
4/8/2019	Bacteria	310	Phoenix	No
4/8/2019	Bacteria	7,030	Phoenix	Yes
4/8/2019	Bacteria	2,160	Phoenix	Yes
4/8/2019	Bacteria	1,870	Phoenix	Yes
4/8/2019	Bacteria	1,440	Phoenix	Yes
4/8/2019	Bacteria	455	Phoenix	Yes
4/8/2019	Bacteria	520	Phoenix	Yes
4/8/2019	Bacteria	226	Phoenix	No
4/8/2019	Bacteria	2,090	Phoenix	Yes
4/8/2019	Bacteria	20	Phoenix	No
4/8/2019	Bacteria	520	Phoenix	Yes
4/8/2019	Bacteria	6,490	Phoenix	Yes
4/8/2019	Bacteria	980	Phoenix	Yes
4/8/2019	Bacteria	630	Phoenix	Yes
4/8/2019	Bacteria	<10	Phoenix	No
4/8/2019	Bacteria	31	Phoenix	No
4/8/2019	Bacteria	391	Phoenix	No
4/8/2019	Bacteria	630	Phoenix	Yes
4/8/2019	Bacteria	1,850	Phoenix	Yes
4/8/2019	Bacteria	520	Phoenix	Yes
4/8/2019*	Bacteria	17,300	Phoenix	Yes
4/8/2019	Bacteria	24,900	Phoenix	Yes
4/8/2019	Bacteria	1,100	Phoenix	Yes
4/8/2019	Bacteria	300	Phoenix	No
4/8/2019	Bacteria	148	Phoenix	No
4/8/2019	Bacteria	980	Phoenix	No
4/8/2019	Bacteria	1,730	Phoenix	Yes
4/26/2019	Bacteria	>24200	Phoenix	Yes
4/26/2019	Bacteria	379	Phoenix	No
4/26/2019	Bacteria	1,610	Phoenix	Yes
4/26/2019	Bacteria	20	Phoenix	No
4/26/2019	Bacteria	1,300	Phoenix	Yes
4/26/2019	Bacteria	2,360	Phoenix	Yes
4/26/2019	Bacteria	865	Phoenix	Yes
4/26/2019	Bacteria	1,530	Phoenix	Yes
	Date 4/8/2019		Parameter c Bacteria	Parameter E. Coli cfu/100mL Bacteria 4,350 Bacteria 310 Bacteria 2,160 Bacteria 1,870 Bacteria 1,440 Bacteria 226 Bacteria 2,090 Bacteria 20 Bacteria 520 Bacteria 6,490 Bacteria 30 Bacteria 391 Bacteria 391 Bacteria 1,850 Bacteria 17,300 Bacteria 11,300 Bacteria 1,730 Bacteria 300 Bacteria 1,730 Bacteria 1,730 Bacteria 1,730 Bacteria 1,730 Bacteria 1,730 Bacteria 2,4200 Bacteria 1,610 Bacteria 1,300 Bacteria 2,360 Bacteria 1,530 Bacteria 1,530

OF-5861-1	OF-0801-4	OF-3701-27	OF-3701-29	OF-1176-1	OF-4906-1	OF-2361-2	OF-3701-24	OF-2361-3	OF-6201-5	OF-3421-1	OF-5641-34	OF-5641-30	OF-5641-35
6/13/2019	6/13/2019	6/13/2019	6/13/2019	6/13/2019	6/13/2019	6/13/2019	6/13/2019	6/13/2019	6/13/2019	4/26/2019	4/26/2019	4/26/2019	4/26/2019
Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria
3,450	17,300	>24200	>24200	2,910	24,200	2,110	>24200	8,160	1,150	3,280	537	226	496
Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix	Phoenix
Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes

2.2 Credit for screening data collected under 2004 permit

If any outfalls to impaired waters were sampled under the 2004 MS4 permit, that data can count towards the monitoring requirements under the modified 2017 MS4 permit. Complete the table below to record sampling data for any outfalls to impaired waters under the 2004 MS4 permit.

Outfall	Sample date	Parameter (Nitrogen, Phosphorus, Bacteria, or Other pollutant of concern)	Results E. coli (cfu/100mL)	Name of Laboratory (if used)	Follow-up required?
OF-3961-2: #1 Oakwood Ave @ Trout Brook	8/16/2010	E. coli	1660	Phoenix	Yes
OF-3771-13: #2 New Britain Ave @ South St	8/16/2010	E. coli	1150	Phoenix	Yes
	8/16/2010	E. coli	>24,200	Phoenix	Yes

*Follow-up investigation required (last column) if the following pollutant thresholds are exceeded:

Dell'street of company	70 H. Hand Abrochold
Pollutant of concern	Pollutant threshold
Nitrogen	Total N > 2.5 mg/l
Phosphorus	Total P > 0.3 mg/l
Bacteria (fresh waterbody)	 E. coli > 235 col/100ml for swimming areas or 410 col/100ml for all others Total Coliform > 500 col/100ml
Bacteria (salt waterbody)	 Fecal Coliform > 31 col/100ml for Class SA and > 260 col/100ml for Class SB Enterococci > 104 col/100ml for swimming areas or 500 col/100 for all others
Other pollutants of concern	Sample turbidity is 5 NTU > in-stream sample

3. Follow-up investigations (Section 6(i)(1)(D) / page 43)

Provide the following information for outfalls exceeding the pollutant threshold.

Outfall	Status of drainage area investigation	Control measure implementation to
		address impairment
OF-1981-8	OF-1981-8 Initiated IDDE investigations in Nov 2019 due to high bacteria at outfall	
	and a chlorine detection. In 2020, further investigations recommended	
	include CCTV of select pipes and a check in the summer to see if the	
	public pool or splash pad was the source of the chlorine.	

4. Prioritized outfall monitoring (Section 6(i)(1)(D) / page 43)

Once outfall screening has been completed for at least 50% of outfalls to impaired waters, identify 6 of the highest contributors of any pollutants of concern. Begin monitoring these outfalls on an annual basis by July 1, 2020.

Outfall Sample Date Parameter(s)		Results
	,	

Part III: Additional IDDE Program Data

1. Assessment and Priority Ranking of Catchments data (Appendix B (A)(7)(c) / page 5)

Provide a list of all catchments with ranking results (DEEP basins may be used instead of manual catchment delineations).

1. Catchment ID (DEEP Basin ID)	
2. Category	
3. Rank	

See Tables on the following pages

2. Outfall and Interconnection Screening and Sampling data (Appendix B (A)(7)(d) / page 7)

2.1 Dry weather screening and sampling data from outfalls and interconnections

impaired waterbodies. Provide sample data for outfalls where flow is observed. Only include Pollutant of concern data for outfalls that discharge into stormwater

See Tables on the following pages

2018 Dry Weather Outfall Inspection Results Summary

West Hartford, Connecticut

		П			100mL	equal to 500 cfu/100mL	Greater than or equal		Total Coliform								
to 410 cfu/100mL (for non-designated swimming areas)	nated swimming areas)	nated swimming areas)	nated swimm	esig	100mL (for non-du	qual to 410 cfu/:	Greater than or equal		E. Coli								
						equal to 0.25 mg/L	greater than or equal		Surfactants								
						qual to 0.50 mg/L	greater than or equal		Ammonia								
						qual to 0.02 mg/L	greater than or equal		Chlorine								
(Saltwater)	(Saltwater)	(Saltwater)	(Saltwater)	1-	Less than 5 mg/L (Freshwater) or Less than 3.0 mg/L (Saltwater)	(Freshwater) or	Less than 5 mg/L		DO								
					/cm	equal to 2,000 uS/cm	Greater than or equal		Conductivity								
					Water Quality Thresholds	Water Quali											
0 0.20 0.25 473	0.20		0		0.49	2.3	983	7.6	27.4	Outfall	8/23/2018	×	Trout Brook	8/28/2018	26	OF-0801-4	271
8 0.00	0.00		0.08		0.42	1.9	842	7.4	23	Outfall	8/23/2018	×	Trout Brook	8/28/2018	48	OF-5096-1	New_13881
1.00	1.00		0.04		1.07	1.9	2150	7.8	24.4	Outfall	8/23/2018	×	Trout Brook	8/28/2018	66	OF-2401-1	15107
0.25	0.60		0.05		0.48	2.8	973	8.3	28	Outfall	8/23/2018	×	Piper Brook	8/27/2018	36	OF-5115-1	464
	4.00		0		0.37	0.0	728	7.3	28.1	Outfall	8/23/2018	×	Piper Brook	8/27/2018	20	OF-2701-2	461
0.12 2.00 0.50 233	2.00		0.12		0.55	2.5	1023	8.1	24.6	Outfall	8/23/2018	×	Park River	8/27/2018	24	OF-3961-2	458
0.10 0.25	0.10		0		0.49	1.2	986	7.9	22.4	Outfall	8/23/2018	×	Trout Brook	8/27/2018	42	OF-5096-3	435
	0.40		0.02		0.49	1.0	971	8.0	26.2	Outfall	9/1/2018	0	Trout Brook	9/5/2018	18	OF-5551-1	411
0.20 0.25	0.20		0.02		0.11	1.0	217	7.6	25.6	Outfall	9/1/2018	0	Trout Brook	9/5/2018	32	OF-3131-1	414
0.10 0.25	0.10		0.04		0.42	1.8	870	8.0	24.9	Outfall	9/1/2018	0	Trout Brook	9/5/2018	36	OF-0171-5	288
0.25	0.10		0.04		0.43	1.9	854	8.2	22.1	Outfall	9/1/2018	0	Trout Brook	9/5/2018	48	OF-4258-1	281
0.20	0.20		0.04		0.34	2.4	675	7.6	23.5	Outfall	9/1/2018	0	Trout Brook	9/5/2018	16	OF-0961-2	97
	0.10		0.08		0.53	4.1	1030	8.2	23	Outfall	9/1/2018	0	Branch Park	9/5/2018	24	OF-3171-2	81
0.30 0.25	0.30		0		1.02	1.3	2040	7.8	24.5	Outfall	9/1/2018	×	Trout Brook	9/5/2018	36	OF-3541-1	304
	0.02		0		0.36	3.2	737	0.8	26.9	Outfall	8/23/2018	×	Trout Brook	8/27/2018	42	OF-5641-6	305
0.12 0.25	0.12		0.6		1.34	3.8	2690	7.9	27.5	Outfall	8/23/2018	×	Trout Brook	8/27/2018	18	OF-5641-11	219
0.20	0.20		0		0.2	6.6	394	7.4	27.3	Outfall	8/13/2018	×	Trout Brook	8/17/2018	36	OF-0531-6	309
0.02 0.25	0.02		0.6		0.56	5.8	1150	7.8	28.2	Outfall	8/13/2018	×	Trout Brook	8/17/2018	20	OF-0531-5	308
2.00	2.00		0.4		0.48	6.1	950	7.8	26.8	Outfall	8/13/2018	×	Trout Brook	8/17/2018	24	OF-5641-1	224
>:	8.00		0.6		0.77	4.7	1539	0.8	27.9	Outfall	8/13/2018	×	Trout Brook	8/17/2018	18	OF-3321-1	225
0.04 0.25	0.04		0.4		0.26	5.0	524	8.2	24.3	Outfall	8/13/2018	×	Trout Brook	8/17/2018	18	1	223A
1.4 0.05 0.25 183	0.05		1.4		0.57	6.0	1132	8.0	28.6	Outfall	8/13/2018	×	Trout Brook	8/16/2018	18	OF-6201-6	188
0.10	0.10		0.08	_	0.45	5.6	899	8.1	25.4	Outfall	8/13/2018	×	Trout Brook	8/16/2018	18	OF-3441-1	162
0.10	0.10		0.08		0.22	4.8	437	7.4	24.2	Outfall	8/13/2018	×	Trout Brook	8/16/2018	24	OF-1981-8	New_9445
0.25	0.20		0.00		0.23	6.4	886	7.6	23.5	Outfall	8/13/2018	×	Trout Brook	8/16/2018	10	OF-2021-1	164
mg/L mg/L mg/L cfu/100mL	mg/L		mg/L		ppt	mh/L	uS/cm		Deg C						Inches		
Chlorine Ammonia Surfactants E. Coli	Ammonia		Chlorine		Salinity	DO	Conductivity	PH	Temp.	Sampling Location	Last Rainfall Event Date	Impaired Water/	Waterbody	Date of Observation	Diameter	Current Outfall ID	Former Outfall ID
Laboratory Analysis					Analysis	In Field									Pine		
In Field Analysis	In Field Analysis	in Field Analysis	In Field Analysis	In Field Analysis	in Field												

Exceeded Water Quality Threshold

CF-2001-002	Propurational part Propure Pro	Outfall 6.3 8.27 1610 0.72 4007 4008 4008 10 Outfall 7.5 8.65 1315 6007 4007 4002 4008 4005 410 Outfall 10.7 7.39 1658 0.77 4002 406 410 410 Upstream Catch Basin 11.6 8.35 2230 1.04 4002 4005 4015 410 Upstream Catch Basin 11.2 8.35 1229 1.14 4002 4005 4005 4005 20 Upstream Catch Basin 11.2 7.83 1102 0.22 40.02 4005 4005 22 Upstream Catch Basin 11.2 7.83 1102 0.47 4002 4005 4005 22 Upstream Catch Basin 11.12 7.83 1102 0.43 4022 4005 4005 20 Upstream Catch Basin 11.12 7.83 1105 0.51 4022 4005 <t< th=""><th></th><th></th><th></th><th>0F-1521-001 0F-1521-001 0F-1521-001 0F-1521-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-6211-003 0F-6211-001 0F-6211-001</th></t<>				0F-1521-001 0F-1521-001 0F-1521-001 0F-1521-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-4591-001 0F-6211-003 0F-6211-001
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Pipe Diameter Date of Date		Outfall 12.8 8.04 1615 0.73 0.03 0.05 0.14 10				OF-4501-001
Pre-Diametral IID Original Outfall IID Original IID Origin		Upstream Manhole 17 8.08 848 0.42 <0.02 <0.05 <0.05 538				N/A
Former Outfall ID Pipe Diameter Date of Observing Waterbody Pipe Diameter Date of Observing Waterbody Date Date of Date	Pope Dalmetr Dalte of Observation Dalte	Upstream Manhole 17.4 8.33 396 0.28 0.03 0.1 <0.05 1660				OF-184-020
Preprince Prep		Outfall 14 8.46 392 0.2 <0.02 0.07 <0.05 355			2//25	OF-4081-002
Preprint Original Outfall ID Original Original Outfall ID	Concept Conc	Ourfall 14.9 8.65 509 0.24 0.04 0.05 <0.05 158				OF-4081-001
Former Outfall ID Original Outfall ID	Pipe Diameter Date of Observation Date Date of Observation Date of	Outfall 17.4 8.2 2220 1.04 0.04 0.06 <0.05 201			-	OF-2361-003
Former Outfall ID Original Outfall ID #2		Outfall 14.9 8.03 550 0.26 0.03 <0.10 0.09 10			+	OF-2361-002
Pope Diameter Pope Diameter Date of Pope Diameter Date of Date of Pope Diameter Date of	Control Cont	Outfall 19 8.45 400 0 0.03 <0.10 <0.05 73				OF-3321-002
Former Outfall ID Original Outfall ID Pipe Diameter Date of Receiving Waterbody Last Rainfall Event Sampling Location Temp. pH Conductivity Salmity Chlorine Ammonia Surfactants E. Coll	West Hartford, Connecticut In Field Analysis In Field Analys	Outfall 19.4 8.8 400 0 0.557 <0.05 <0.05 <10		1	+	OF-5641-022
Former Outfall ID Original Outfall ID #2 Pipe Diameter Date of Observation Receiving Waterbody Last Rainfall Event Sampling Location Temp. pH Conductivity Salinity Chlorine Amnonia Surfactants E. Coll	West Hartford, Connecticut In Field Analysis In Field Analys	Outsil 197 857 400 0 003 0.13 0.07 2750			+	OF 0181 008
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Former Outfall ID Original Outfall ID 22 Pipe Diameter Date of Date of Receiving Waterbody Last Rainfall Event Sampling Location Temp. pH Conductivity Salmity Chlorine Ammonia Surfactants E. Coll Date of Da	West Hartford, Connecticut In Field Analysis In Field Analysis Laboratory A. Former Outfall ID 47 Pipe Diameter Date of Receiving Waterbody Last Rainfall Event Date Date Observation Date Date Observation Observation Date Date Observation Observation Date Date Observation Observation Date Date Observation Observation Date Observation Date Date Observation Date Observation Date Observation Date Date Observation Date Date Date Date Date Date Date Date	Outfall 17.4 8.4 300 0 <0.02 0.16 0.11 350		+		OF-2401-002
Former Outfall ID Original Outfall ID #2 Pipe Diameter Date of Receiving Waterbody Last Rainfall Event Sampling Location Temp. pH Conductivity Salinity Chlorine Ammonia Surfactants E. Coli	West Hartford, Connecticut In Field Analysis In Field Analysis Laboratory A. Former Outfall ID Original Outfall ID 42 Pipe Diameter Date of Receiving Waterbody Last Rainfall Event Sampling Location Temp. pH Conductivity Sallinity Chlorine Ammonia Surfactants E. Coll	. uS/cm ppt mg/L mg/L mg/L du/100mL	J. Barre			
	In Field Analysis	Sampling Location Temp. pH Conductivity Salinity Chlorine Ammonia Surfactants E.Coli				Former Outfall ID
In Field Analysis	West Hartford Connecticut	In Field Analysis				
West Hartford, Connecticut		West Hartford, Connecticut				

ceeded	
Water	
Quality	
Threshold	

2.2 Wet weather sample and inspection data

Provide sample data for outfalls and key junction manholes of any catchment area with at least one System Vulnerability Factor.

Interconnection Sample ID Outfall / Ammonia Chlorine Conductivity Salinity E. coli or Surfactants Water Temp Pollutant of concern

See Tables on the following pages

2018 Wet Weather Outfall Inspection Results Summary

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Principal Prin					. (Saltwater)	Less than 5 mg/L (Freshwater) or Less than 3.0 mg/L (Saltwater)	(Freshwater) or L	Less than 5 mg/L		DO								
ALIA D. Carrent Out 10 10 Diameter Contraction (ALIAN)						cm	qual to 2,000 uS/	Greater than or e		Conductivity								
Pro						y Thresholds	Water Qualit											
Apple Pape																		
Ball D. Current Outsill D. Dunet	>24,200	2760	0.14	0.14	<0.02	0	8.1	85	7.7	15.6	1.08	4/19/2018	×	Trout Brook	4/25/2018	18	OF-5641-40	219
Pro	24200	1500	0.20	0.23	<0.02	0	7.5	82	7.7	16.2	1.08	4/19/2018	×	Trout Brook	4/25/2018	36	OF-5641-39	309
Bill Curnet Outfill Demetr Deme	>24,200	7700	0.17	0.21	<0.02	0.01	8.6	222	8.2	16.4	1.08	4/19/2018	×	Trout Brook	4/25/2018	24	OF-5641-38	224
Procedurio Pro	6870	256	0.24	0.20	<0.02	0.01	8.6	243	8.2	16.4	1.08	4/19/2018	×	Trout Brook	4/25/2018	60	OF-5641-37	447
Direct D	19900	63	0.35	0.35	<0.02	0.02	9.1	478	8.9	16.8	1.08	4/19/2018	×	Trout Brook	4/25/2018	32	OF-5641-36	NEW_13878
	>24,200	2760	0.11	0.34	<0.02	0.17	7.5	358	7.0	11.2	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-35	225
Pick Date of Hollin Daniest Danie	12000	109	0.05	0.09	<0.02	0.15	9.6	297	7.0	9.5	2.35	4/12/2018	×	Trout Brook	4/16/2018	12	OF-5641-34	NEW_13895
Pick Diameter Date of Diameter Date of Diameter Diam	24200	565	0.06	0.10	<0.02	0.01	9.4	25	7.3	10.7	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-33	NEW_15104
Prop. Prop	24200	767	0.07	0.21	<0.02	0.36	9.3	726	6.8	9.6	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-32	306
Property	>24,200	2280	0.07	0.14	<0.02	0.05	7.1	109	6.9	8.4	2.35	4/12/2018	×	Trout Brook	4/16/2018	42	OF-5641-31	305
Proc Date of	>24,200	402	0.08	0.18	<0.02	> 10.00	10.4	0	1.4	10.2	2.35	4/12/2018	×	Trout Brook	4/16/2018	42	OF-5641-30	222
Pipe Date of Observation Daimeter Date of Observation Daimeter Date of Observation Inches Inches Date of Observation Inches Inches Date of Observation Inches I	>24,200	723	0.07	0.19	<0.02	0.03	9.4	67	6.8	7.5	2.35	4/12/2018	×	Trout Brook	4/16/2018	24	OF-5641-29	221
Pipe Date of Date	>24,200	1300	0.06	0.13	<0.02	0.06	9.4	131	6.4	7.4	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-28	434
Pipe Daire	>24,200	1270	0.06	0.15	<0.02	0.09	7.9	183	6.5	9.3	2.35	4/12/2018	×	Trout Brook	4/16/2018	48	OF-5641-27	NEW_13881
Price Date of Date	1550	110	0.08	0.17	<0.02	0.02	7.3	34	6.7	5.8	2.35	4/12/2018	×	Trout Brook	4/16/2018	15	OF-5641-26	443
Pro	7700	318	0.10	0.11	0.11	0.54	7.8	1089	8.0	11	2.35	4/12/2018	×	Trout Brook	4/16/2018	42	OF-5641-25	435
Price Pric	9800	368	0.07	0.09	<0.02	0.23	8.4	455	7.9	4.1	2.35	4/12/2018	×	Trout Brook	4/16/2018	24	OF-5641-24	New_9445
Price Pric	>24,200	9800	<0.05	0.19	<0.02		12.3		7.4	7	2.35	4/12/2018	×	Trout Brook	4/16/2018	10	OF-5641-23	14304
Price Pric	>24,200	1400	0.07	0.11	0.03		12.3		7.5	5.2	2.35	4/12/2018	×	Trout Brook	4/16/2018	10	OF-5641-22	164
Pipe Date of Date	>24,200	759	<0.05	0.15	0.05		12.2	C	7.8	5.4	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-21	162
Pipe Date of Observation Date of	>24,200	813	0.07	0.17	0.04		14.2	,	7.9	4.8	2.35	4/12/2018	×	Trout Brook	4/16/2018	16	OF-5641-20	180
Pipe Date of Date of Date of Detect	>24,200	1990	0.08	0.24	<0.02		14.0		8.3	4.5	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-19	206
Price Pric	>24,200	2610	0.06	0.12	0.02		14.2		8.4	3.2	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-18	NEW_9456
Applie Pipe	>24,200	146	0.06	0.11	<0.02		14.2		8.6	4.8	2.35	4/12/2018	×	Trout Brook	4/16/2018	22	OF-5641-17	205
Pipe	>24,200	1440	0.09	0.18	<0.02	-	13.8		8.5	4.5	2.35	4/12/2018	×	Trout Brook	4/16/2018	15	OF-5641-16	204
Pipe Date of	>24,200	10,500	0.11	0.22	<0.02		12.0		8.5	3.9	2.35	4/12/2018	×	Trout Brook	4/16/2018	18	OF-5641-15	218
Aboratory Applying Pipe Pipe Pipe Impaired	>24,200	3780	0.08	0.13	<0.02		11.7	1	8.8	6.3	2.35	4/12/2018	×	Trout Brook	4/16/2018	15	OF-5641-14	216
Current Outfall ID Pipe Date of Diameter Date of Inches Date of I	>24,200	1040	0.17	0.33	<0.02		11.6	Y	9.3	3.3	2.35	4/12/2018	×	Trout Brook	4/16/2018	. 30	OF-5641-16	214
Pipe Impaired Last Rainfall within Last 72 Temp. pH Conductivity DO Salinity Chlorine Ammonia Surfactants E. Coli Current Outfall II Diameter Opervation Water/or Water/or Water/or Fivent Date Current Outfall II Diameter Opervation Opervation Water/or Wate	cfu/100mL	cfu/100mL	mg/L	mg/L	mg/L	ppt	mh/L	uS/cm		Deg C	Inches		TMDLs			Inches		
Precipitation In Field Analysis	Total Coliform	E. Coli	Surfactants	Ammonia	Chlorine	Salinity	8	Conductivity	рН	Temp.	within Last 72 Hours	Last Rainfall	Impaired Water/	Waterbody	Date of Observation	Diameter	Current Outfall ID	Outfall ID
	y Analysis	Laborator				Analysis	In Field				Precipitation					Pipe		

Exceedance

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									In Field Analysis	Analysis				Laboratory Analysis	-	
Former Outfall ID Current Outfall ID	nt Outfall ID	Pipe Diameter	Date of	Waterbody	Impaired Water/	Last Rainfall	Storm Magnitude	Temp.	PH	Conductivity	Salinity	Chlorine	Ammonia	Surfactants	E. Coli	Total Coliform
		Inches	Observation		TMDLs	Event Date	Inches	Deg C		uS/cm	ppt	mg/L	mg/L	mg/L	cfu/100mL	cfu/100mL
OF-5115-001 OF	OF-5115-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.2	8.7	268	0.15	0.05	0.34	0.14	4,350	29,100
+	OF-4971-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.3	8.2	213	0.10	< 0.02	0.16	0.09	310	6,890
1	OF-4971-2	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.1	7.6	533	0.27	< 0.02	0.43	0.14	7,030	141,000
-		MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.2	7.9	148.2	0.07	< 0.02	0.23	0.1	2,160	23,800
+		MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.4	7.8	262	0.13	< 0.02	0.22	0.12	1,870	26,000
+	OF-2401-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.3	7.6	418	0.21	< 0.02	0.31	0.11	1,440	32,600
	OF-1971-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.0	8.2	44.6	0.02	0.03	0.08	0.07	455	34,500
	OF-0811-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.5	7.7	158.4	0.08	< 0.02	< 0.05	0.25	520	32,600
	OF-5096-5	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.8	7.2	461	0.23	< 0.02	0.15	0.11	226	21,400
	OF-5641-39	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.7	7.6	228	0.11	< 0.02	0.41	0.3	2,090	72,700
	OF-5641-38	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.4	7.4	209	0.11	< 0.02	0.28	0.24	20	77,000
-	OF-3321-2	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	11.8	7.7	389	0.2	< 0.02	< 0.05	0.11	520	27,600
+	2171-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.7	8.9	46.4	.02	< 0.02	< 0.10	0.08	6,490	41,100
OF-3261-001 OF	OF-3261-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	11.2	7.3	142.8	0.07	< 0.02	< 0.10	0.18	980	29,100
-	OF-3681-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	11.2	7.4	140.0	0.07	< 0.02	0.11	0.11	630	36,500
OF-4341-002 OF	OF-4341-2	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.4	6.9	57.2	0.03	0.02	0.13	0.07	<10	68,700
-	OF-4341-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.5	7.5	440	.22	0.04	0.13	0.05	31	68,700
	OF-3861-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	12.1	7.4	118.7	0.06	0.05	0.1	< 0.05	391	105
Н	OF-3861-2	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	11.9	7.1	119.4	0.06	< 0.02	0.13	< 0.05	630	141,000
OF-3861-003 OF-		MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	11.1	11.1	77.8	0.04	0.03	0.14	< 0.05	1,850	68,700
		MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	11.2	7.5	187.5	0.07	< 0.02	0.25	0.13	520	41,100
_	OF-2171-1	MUNICIPAL	4/8/2019*	Trout Brook	×	4/5/2019	0.71	14.7	8.9	46.4	.02	< 0.02	0.13	< 0.05	17,300	57
OF-3836-005 OF	OF-3836-5	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	12.8	8.4	57.2	.03	< 0.02	0.15	< 0.05	24,900	130,000
	OF-3836-3	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.5	7.9	135	.07	0.04	0.11	< 0.05	1,100	48,800
	OF-3231-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.1	7.9	81.6	.04	< 0.02	0.19	0.08	300	34
OF-3541-001 OF-	OF-3541-1	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	14.2	7.5	270	.13	< 0.02	0.14	< 0.05	148	68,700
OF-4491-001 OF-	OF-4491-3	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.1	7.7	635	.32	0.03	< 0.05	< 0.05	980	18,700
	OF-5641-21	MUNICIPAL	4/8/2019	Trout Brook	×	4/5/2019	0.71	13.2	7.5	414	.21	< 0.02	0.45	0.17	1,730	34,500
\exists	OF-3418-1	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	13.7	7.4	79.3	0.04	< 0.02	0.5	0.39	>24200	>24200
	OF-5691-6	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	13.2	6.8	187.4	0.09	< 0.02	0.34	0.37	379	>24200
	OF-5691-5	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	13.5	7.4	155	.08	< 0.02	0.24	0.45	1,610	>24200
	OF-3701-28	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	15.3	7.8	316	0.16	0.12	0.07	0.08	20	959
	OF-5691-7	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	14.4	7.7	568	0.28	< 0.02	0.33	0.54	1,300	>24200
	OF-5691-3	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	13.3	7.6	59.0	0.03	< 0.02	0.19	0.35	2,360	>24200
	OF-5641-37	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	13.9	7.9	273	.13	< 0.02	1.07	0.69	865	>24200
	OF-5641-36	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	14.5	7.6	352	0.18	< 0.02	0.51	0.37	1,530	>24200
	OF-5641-35	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	14.6	7.8	373	.19	0.11	0.25	0.28	496	>24200
	OF-5641-30	MUNICIPAL	4/26/2019	Trout Brook	×	4/22/2019	2.12	14.5	7.6	205	.10	< 0.02	0.12	0.24	226	>24200
	05 5644 34	MINICIPAL	4/26/2019		**	0100/00/0	212	150			10	2003	0 13	0 10	E27	>24200

			Throcholds	Water Ownlin, Throsholds				,				tion completed	-duplicate inspection completed			
				The state of the s		and the second name of the second							*			
>24200	3,450	0.08	0.54	< 0.02	0.03	55.6	7.2	17.6	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-5861-1	OF-5861-001
>24200	17,300	0.53	0.6	< 0.02	0.16	315	7.6	16.8	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-0801-4	OF-0801-003
>24200	>24200	0.2	0.34	< 0.02	0.03	61.7	6.6	16.2	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-3701-27	OF-3701-026
>24200	>24200	0.2	0.31	< 0.02	0.03	52.9	6.6	17.7	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-3701-29	OF-3701-028
>24200	2,910	0.25	0.43	< 0.02	0.07	135.	7.4	16.5	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-1176-1	OF-1176-001
>24200	24,200	0.17	0.31	< 0.02	0.01	18.2	7.1	18.8	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-4906-1	OF-4906-001
>24200	2,110	0.07	0.13	< 0.02	0.07	140.5	6.9	17.9	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-2361-2	OF-2361-002
>24200	>24200	0.17	0.34	< 0.02	56.2	78.2	6.7	17.8	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-3701-24	OF-3701-023
>24200	8,160	0.12	0.43	< 0.02	0.11	228	7.3	17.9	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-2361-3	OF-2361-003
>24200	1,150	0.12	0.3	< 0.02	0.04	84.0	7.3	16.7	0.24	6/11/2019	×	Trout Brook	6/13/2019	MUNICIPAL	OF-6201-5	OF-6201-004
>24200	3,280	0.26	0.25	< 0.02	.17	350	7.4	14.3	2.12	4/22/2019	×	Trout Brook	4/26/2019	MUNICIPAL	OF-3421-1	OF-3421-001
cfu/100mL	cfu/100mL	mg/L	mg/L	mg/L	ppt	uS/cm		Deg C	Inches		TMDLs			Inches		
Total Coliform	E. Coli	Surfactants	Ammonia	Chlorine	Salinity	Conductivity	pН	Temp.	Magnitude	Last Rainfall	Water/	Waterbody	Date of	Diameter	Former Outfall ID Current Outfall ID	Former Outfall ID
	is	Laboratory Analysis	u.			In Field Analysis	In Field		Storm					Pine		
							cut	West Hartford, Connecticut	West H							
						ts summary	tion Kesul	Trail Inspec	2019 - Wet Weather Outfall Inspection Results out	19 - Wet W	201					
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	Water Quality Thresholds
Conductivity	Greater than or equal to 2,000 uS/cm
DO	Less than 5 mg/L (Freshwater) or Less than 3.0 mg/L (Saltwater)
Chlorine	greater than or equal to 0.02 mg/L
Ammonia	greater than or equal to 0.50 mg/L
Surfactants	greater than or equal to 0.25 mg/L
E. Coli	Greater than or equal to 410 cfu/100mL (for non-designated swimming areas)
Total Coliform	Greater than or equal to 500 cfu/100mL

Exceedance

3. Catchment Investigation data (Appendix B (A)(7)(e) / page 9)

3.1 System Vulnerability Factor Summary

System Vulnerability Factors (SVF). If present, report which SVF's were identified. An example is provided below. For those catchments being investigated for illicit discharges (i.e. categorized as high priority, low priority, or problem) document the presence or absence of

Outfall ID	Receiving Water	System Vulnerability Factors
OF-3321-1 (225)	OF-3321-1 (225) Upstream of Trout Brook	Upstream of Impaired water, sewer system > 40 years old
OF-1981-6 (162) Trout Brook	Trout Brook	Discharge to impaired water, sewer system > 40 years old
OF-1981-8 (163) Trout Brook	Trout Brook	Discharge to impaired water, sewer system > 40 years old

Where SVFs are:

- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages.
- Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs
- ω. Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints
- 4. Common or twin-invert manholes serving storm and sanitary sewer alignments.
- 5. Common trench construction serving both storm and sanitary sewer alignments.
- Crossings of storm and sanitary sewer alignments.
- 7. Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
- 00 sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and investigations.
- 9. Areas formerly served by combined sewer systems.
- 10. Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas.
- 11. Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance)
- 12. History of multiple local health department or sanitarian actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather that poor owner maintenance)

3.2 Key junction manhole dry weather screening and sampling data – See tables on the following pages

D	Key Junction Manhole
Sample date	Screening /
of illicit discharge	Visual/ olfactory evidence
	>
CIICIIII	Chlorino
Sulfactailts	Surfactants

3.3 Wet weather investigation outfall sampling data - See tables on the following pages

₽	Outfall
Salliple date	Cample date
Allillollid	^
CIIOIIII	Chlorino
Juliaciants	Curfactants

Structure ID	Date	Temp. (deg C)	H	Conductivity (uS/cm)	Ammonia Chlorine (mg/L) (mg/L)	Chlorin (mg/L)		Surfactants (mg/L)		E. Coli (SW 235 col/100mL)	Total Coliform
OF-3321-1	8/17/2018		7.96	1539	00	0.6			>24,200	00	>24,200
Outfall Wet Weather Inspection	t Weather	Inspectio	3								
Structure ID	Date	Temp. (deg C)	뫈	Conductivity (uS/cm)	Ammonia Chlorine (mg/L) (mg/L)	Chlorin (mg/L)		Surfactants (mg/L)		E. Coli (SW 235 col/100mL)	Total Coliform
OF-3321-1	4/16/2018	11.2	6.96	358	0.34	<0.02	2 0.11	1	2760		>24,200
IDDE Dry Weather Inspection	Veather Ins	pection									
Structure ID	Date	Direction of Inlet Pipe		Dry Weather Flow Temp. (deg C	-	모	Conductivity (uS/cm)	vity Aı (n	Ammonia (mg/L)	Ammonia Chlorine (mg/L) (mg/L)	Surfactants (mg/L)
OF-3321-1	11/21/2019		Yes			8.19	868	6		0	1.5
OF-3321-1	1/30/2020		Yes								
mh-3321-007	11/21/2019	02:00	Yes		8.7	7.98	621	6		0	w
mh-3321-007	11/21/2019	09:00	Yes		8.3	8.34	794	0.	0.25	0	0.25
MH-3321-006	11/21/2019	12:00	Yes								
MH-3321-005	11/21/2019	12:00	Yes								
MH-3321-004	11/21/2019	12:00	Yes		10.3	8.18	1314	0.5	5	0	0.25
MH-3321-003	11/21/2019 01:00	01:00	No	No + no sign of dry weather flow							
MH-3321-003	11/21/2019 03:00	03:00	Yes		13.7	8.22	1400	0		0	0.25
MH-3321-003	11/21/2019 02:30	02:30	Yes		11.6	8.35	1495	0		0	0.25
MH-3321-003	11/21/2019 11:00	11:00	Yes		10.1	8.18	1791	0		0	0.25
CB-3321-026	11/21/2019		dry Vo	No + no sign of dry weather flow							
CB-3321-023	11/21/2019	12:00	d No	No + no sign of dry weather flow							
CB-3321-021	11/21/2019		d No	No + no sign of dry weather flow							
CB-3321-014	11/21/2019		dy No	No + no sign of dry weather flow							
CB-3321-012	11/21/2019		dry No	No + no sign of dry weather flow							
Св-3321-011	11/21/2019		d No	No + no sign of dry weather flow							
CB-3321-010	11/21/2019		d No	No + no sign of dry weather flow							

Structure ID	Date	(deg C)	Ē	(us/cm) (mg/L) (mg/L)	Ammonia (mg/L)	(mg/L)	ne Surfactants (mg/L)		E. Coli (SW 235 col/100mL)	Total
OF 1981-6	8/16/2018	25.4	811	899	01	008	-	6,130	0	>24,200
OF-1981-6	12/27/2019	08 NJ	50 11 13	774	0.05	<0.02	A 05	771		1480
Outfall Wet Weather Inspection	t Weather	Inspectic	3		Bases					
Structure ID	Date	Temp.	끂	Conductivity (uS/cm)	Ammonia (mg/L)	(mg/L)	ne Surfactants } (mg/L)		E. Coli (SW 235 col/100mL)	Total Collform
OF-1981-6	4/16/2018	5.4	7.75		015	0.05	<0.05	759		>24200
IDDE Dry Weather Inspection	Veather In:	spection								
Structure ID	Date	Direction of Inlet Pipe	of Dr	Dry Weather Flow Temp. (deg C	-	H	Conductivity (uS/cm)	Ammoni (mg/L)	Ammonia Chlorine (mg/L) (mg/L)	Surfactants (mg/L)
04-1981-6	11/14/2019		Yes		6	8.16	712	0	0	0.25
MH-1981-009	11/14/2019		Yes							
MH-1981-007	11/14/2019		Yers							
MH-1981-006	11/14/2019		Yes							
MH-1981-005	11/14/2019		Yes.							
MH-1981-004	11/14/2019	12:00	Yes		10.3	7.7	866	0	0	0.25
MH-1981 003	11/14/2019		Yes							
MH-1981-002	11/14/2019		o N	No + no sign of dry weather flow						
CB 2021-002	11/14/2019		di No	No + no sign of dry weather flow						
CB-2021-001	11/14/2019		9 N	No + no sign of dry weather flow						
CB-1991-002	11/14/2019		Yers							
CB-1981-024	11/14/2019		9 8	No + no sign of dry weather flow						
CB-1981-023	11/14/2019		9 8	No + no sign of dry weather flow						
CB-1981-022	11/14/2019		Yes							
C8-1981-021	11/14/2019		S &	No + no sign of dry weather flow						
CB-1881-020	11/14/2019		9 N	No + no sign of dry weather flow						
CB-1981-019	11/14/2019		d No	No + no sign of dry weather flow						
CB-1981-018	11/14/2019		9 N	No + no sign of dry weather flow						
CB-1981-017	11/14/2019		d N	No + no sign of dry weather flow						
CB-1981-016	11/14/2019		d No	No + no sign of dry weather flow						
C8-1981-015	11/14/2019		9 N	No + no sign of dry weather flow						
CB-1981-014	11/14/2019		d No	No + no sign of dry weather flow						

Outrail Dry	Outlail Dry Weather Inspection	nspection	ľ				1				
Structure ID	Date	Temp. (deg C)	H	Conductivity Ammonia Chlorine (uS/cm) (mg/L) (mg/L)	Ammonia (mg/L)	Chlorin (mg/L)		Surfactants (mg/L)		E. Coli (SW 235 col/100mL)	Total Coliform
OF-1981-8	8/16/2018		7.44	437	0.1	0.08		0.25	909		17,300
Outfall We	Outfall Wet Weather Inspection	Inspection	2								
Structure ID	Date	Temp. (deg C)	포	Conductivity (uS/cm)	Ammonia (mg/L)	Chlorine (mg/L)		Surfactants (mg/L)		E. Coli (SW 235 col/100mL)	Total Coliform
OF-1981-8	4/16/2018		7.9	455	0.09	<0.02		0.07	368		9800
IDDE Dry V	IDDE Dry Weather Inspection	spection									
Structure ID	Date	Direction o Inlet Pipe	f Dn	Direction of Dry Weather Flow Temp. Inlet Pipe (deg C	_	F	Conduct (uS/cm)	tivity	Ammonia (mg/L)	Chlorine (mg/L)	Surfactants (mg/L)
OF-1981-010	11/14/2019		Yes								
MH-1981-010	11/14/2019		Yes		6.3	8.8	624	0		0	0.25
Св-1981-054	11/14/2019		No	No + no sign of dry weather flow							
CB-1981-041	11/14/2019		d No	No + no sign of dry weather flow							
CB-1981-040	11/14/2019 09:00	09:00	dy	No + no sign of dry weather flow							
CB-1981-037	11/14/2019		dy	No + no sign of dry weather flow							
CB-1981-036	11/14/2019		d No	No + no sign of dry weather flow							
Св-1981-035	11/14/2019		dry	No + no sign of dry weather flow							
CB-1981-034	11/14/2019		No	No + signs of dry weather flow							
CB-1981-030	11/14/2019		we No	No + signs of dry weather flow							
Св-1981-028	11/14/2019	09:00	Yes		5.9	8.3	478	0		0	0.25
	44 (44 (2040 04 00	01:00	γρς		7	7.55	643	0		0	0.25

3.4 Data for each illicit discharge source confirmed through the catchment investigation procedure

IOCALIOII	Discrini &c	Discharge		
location	Jource	Source		
Discharge description				
discovery	discourant	Method of		
discovery	discount	Date of		
	elimination	Date of		
		Mitigation or enforcement action		
removed	volume of flo	Estimated		

Part IV: Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in this document or its attachments may be punishable as a criminal

Multist onlor/2020	Signature / Date:	Print name: Mithen h. Mart	Chief Elected Official or Principal Executive Officer	offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute."
Godhi a h	Signature / Date:	Print name: Cynthia Baumann	Document Prepared by	ut General Statutes, pursuant to Section 53a-157b of the other applicable statute."